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EEE BRANCH REVIEW

DATE: IN 12/8/76 OUT 12/15/76 IN _____ OUT _____
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 100 LIT

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED _____

DATE OF SUBMISSION 11-24-76

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): I, D, (H), F, N, R, S Formulation Purposes (Technical)

PRODUCT MGR. NO. Jacoby

PRODUCT NAME(S) CGA-24705 (Tech)

COMPANY NAME Ciba-Geigy Ltd.

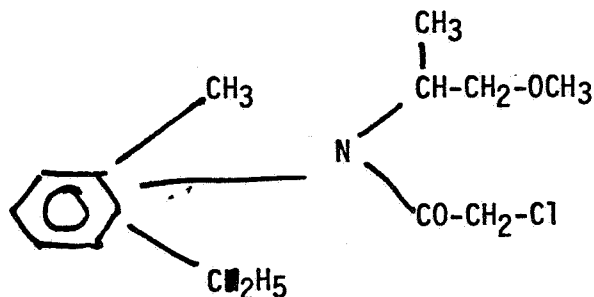
SUBMISSION PURPOSE Registration

CHEMICAL & FORMULATION 2-chloro-N-(2-ethyl-6-methyl phenyl)-N-(2'-methyl-1-methylethyl) acetamide

(GA-24705 (Tech)

Environmental Safety

- 100.1 Pesticidal Use
Technical product for formulation of herbicides
- 100.1 Application methods directions
N/A
- 101.0 Chemical and Physical Properties
- 101.1 Chemical Name:
Z-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methyl_1_methylethyl)
acetamide
- 101.2 Common Name: CBA-24705 Tech
- 101.3 Structural Formula



C₁₅H₂₂ClO₂

- 101.4 Molecular Weight: 283.80
- 101.5 Physical State
Liquid: white to tan, odorless
- 101.6 Solubilities
Water: 530 ppm at 20°C
Organic Solvents: Miscible with xylene, toluene, dimethyl formamide, methyl cellosolve, butyl cellosolve, ethylene dichloride, and cyclohexanone; insoluble in ethylene glycol and propylene glycol.
- 102.0 Behaviour in the Environment
See pesticide petition 5F1606
- 103.0 Toxicological Properties

103.0 Toxicological Properties

103.1 Acute Toxicity

103.1.2 Avian

Test: Acute oral LD₅₀

Species: Mallard Duck, Anas platyrhynchos

Results: LD₅₀ = 4640 mg/kg (2398-9877)

Chemical: CGA-24705 Tech.

Title: Final Report: Acute Oral LD₅₀ - Mallard Duck

Accession: 226955

Study Date: May 19, 1976

Researcher: Truslow Farms Inc.

Submission: 100-LIT-CIBA-GEIGY 11-24-76

Test Acceptability: This study meets the requirements for the acute oral LD₅₀ for a wild waterfowl species. 14 day old birds used as test specimens *(must supply rationale since standard calls for greater than 16 weeks.*

HTC

103.1.3 Fish

Test: 96 hr static bioassay

Species: Rainbow Trout, Salmo gairdner; and bluegill sunfish, Lepomis macrochirus

Results: LC₅₀ - 2 ppm - Rainbow Trout No confidence limits
15 ppm - bluegill sunfish

*CARP - 4.7 ppm
catfish - 4.9 ppm
Guppy - 1.6 ppm*

Chemical: CGA-24705, tech.

Title: Acute Toxicity to Rainbow Trout, Crucian Carp, Channel Catfish, Bluegill, and Guppy of Technical CGA-24705

Accession: 094220

Study Date: January 4, 1974

Researcher: CIBA-GEIGY Ltd.

Submission: 100-LIT-CIBA-GEIGY 11-24-76

Test Acceptability: This study is acceptable and meets the requirements for the acute LC₅₀ for a cold water and warm water fish.

Note: Age of test fish was not reported. Test water temperature for bluegills was too low (14 = 20°C). It should have been higher near 22°C. Control fish survival not reported.

must request information HTC

103.1.4 Aquatic Invertebrate

Test: Acute 48 hr LC₅₀ for an aquatic invertebrate

Species: Water flea, Daphnia magna

Results: LC₅₀ - 25.1 (21.6 - 29.2) mg/L

Chemical: CGA-24705 Technical

Title: Acute Toxicity of CGA-24705 Technical to the water flea, Daphnia magna

Accession #: 226955

Study date: May 26, 1976

Researcher: Aquatic Environmental Sciences, Union Carbide Corp.

Submission: 100 LIT-CIBA-GEIGY 11-24-76

Test Acceptability: This study meets the requirements for the acute 48 hr LC50 for an aquatic invertebrate.

103.2

Subacute Toxicity

Test: 8 day dietary LC50

Species: Bobwhite Quail, Mallard Duck

Results: LC50 = > 10,000 ppm for both species

Chemical: CGA-24705 Tech.

Title: Eight day dietary LC50 - Bobwhite Quail, Mallard Duck
Technical CGA-24705

Final Report

Accession #: 094220

Study Date: August 5, 1974 (Both studies)

Researcher: Truslow Farms Incorporated

Submission: 100-LIT-CIBA-GEIGY 11-24-76

Test Acceptability: This study meets the requirements for the subacute dietary LC50 for one species of upland game bird and one species of wild waterfowl.

104.0

Hazard Assessment

104.1.1

Adequacy of toxicity data

104.1.1

Adequacy of toxicity data.

Data is adequate. Recommend that future LC50 data submitted on fish report age of test specimens and mortality/survival rate in controls.

104.1.2

Additional Data required

None required

104.1.3

Likelihood of exposure to non-target species: CGA-24705 technical is for formulations purposes only. If this product is utilized in the manner for which it is intended, the risk to fish and wildlife is practically non-existent. The only possible danger might arise from accidental spillage during transportation.

105.0

Conclusions

The Environmental Safety Review Staff finds no objection to the registration of CGA-24705 technical.



Gerald L. Gavin Jr.
Environmental Safety Review Staff
EEEB